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Winnipeg. City Engineer's Dept.

ANNUAL REPORT 1902

OF THE

CITY ENGINEER

CITY OF WINNIPEG,

MANITOBA.

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ANNUAL REPORT

OF THE

CITY ENGINEER

1902

CITY OF WINNIPEG

MANITOBA

WINNIPEG:
McIntyre Bros., Printers
1903

WINNIPEG

CITY COUNCIL, 1902

MAYOR

JOHN ARBUTHNOT

ALDERMEN

WARD 1—B. E. CHAFFEY
C. CAMPBELL

WARD 2—JOHN RUSSELL
ROBERT BARCLAY

WARD 3—J. G. LATIMER
J. H. McCARTHY

WARD 4—THOS. SHARPE
J. G. HARVEY

WARD 5—D. A. RITCHIE
D. D. WOOD

WARD 6—J. L. WELLS
J. W. COCKBURN

Finance Committee.

Alderman Russell (Chairman), Chaffey, McCarthy, Harvey, Wood, Wells.

Fire, Water and Light.

Alderman Cockburn (Chairman), Campbell, Barclay, Latimer, Sharpe, Ritchie.

Legislative Committee.

Alderman Chaffey (Chairman), Barclay, McCarthy, Harvey, Wood, Wells.

Hospital Board.

Aldermen Barclay and Wells.

Library Board.

Aldermen Barclay, Chaffey and McCarthy.

Works Committee.

Alderman Thos. Sharpe (Chairman), Chaffey Barclay, Latimer, Ritchie, Cockburn.

Market, License and Health.

Alderman Harvey (Chairman), Campbell, Russell, McCarthy, Wood, Wells.

Trade and Commerce Committee.

Alderman Campbell (Chairman), Russell, Latimer, Sharpe, Ritchie, Cockburn.

Exhibition Board.

Aldermen Campbell and Latimer.

Sinking Fund.

Alderman Russell.

Buffalo Committee.

Aldermen McCarthy and Wells.

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Winnipeg, July 28th, 1903.

The Chairman and Committee on Works,
Winnipeg.

Gentlemen—

I beg to submit herewith my annual report, covering work done in 1902-3.

Your obedient servant,

H. N. RUTTAN,

City Engineer.

◆

The following is an abstract of the quantities of the principal City Public Works as on December 31st, 1902.

	Constructed in 1902. (Miles)	Total Miles.
Sewers	7.09	65.67
Pavements—		
Asphalt	3.74	9.12
Macadam	1.97	27.64
Wood block (exclusive of renewals).	.21	14.97
Water Mains	11.5246	76.1436
Artificial Stone Walks	3.91	9.82
Plank Walks	5.88	175.
Plank Walks, renewals	4.30	
New Grading	5.02	123.08
Post Hydrants, etc.	No. in 1902	TOTAL
Post Hydrants	90	415
Ball Hydrants		104
Water, House Connections	709	3404
Sewer, House Connections	708	3520

WORKS EXECUTED IN 1902.

STREET.	FROM.	TO.	Length in Feet.	In 1902. Miles.	Previously. Miles.	Total. Miles.
	PIPE SEWERS.					
McDonald	Argyle	May	396			
Spence	Portage	Broadway	1436			
Robinson	Dufferin	Stella	381			
Rachel	Point Douglas	River	1270			
King	Sutherland	Flora	1656			
Flora	Schultz	King	265			
Langside	Ellice	Notre Dame	2654			
Maryland	Ellice	Portage	1822			
Maryland	Ellice	Sargent	1308			
Jarvis	Charles	Salter	1348			
Balmoral	Portage	Ellice	812			
Derby	Jarvis	S line lot 8, Block 3	230			
Maryland	Sargent	Notre Dame	1811			
Austin	Higgins	Henry	483			
Higgins	Austin	Main	353			
Flora	Robinson	Salter	979			
Good	N line lot 16	N line lot 22	329			
Pacific	Nena	W line lot 3, Block 31	223			
Pacific	W line lot 3 Block 31	Tecumseh	354			
Maple	Sutherland	Jarvis	395			
Jarvis	Maple	Main	688			
Jarvis	Maple	Eastward	44			
Dufferin	Main	Schultz	1049			
Kennedy	S line lot 183, Blk 4.	Sargent	864			

WORKS EXECUTED IN 1902—Continued.

STREET.	FROM.	TO.	Length in Feet.	In 1902. Miles.	Previously. Miles.	Total. Miles.
Main	Alfred	Aberdeen	268			
Manitoba	Aikins	Charles	619			
Charles	Manitoba	Selkirk	620			
Stella	Salter	Andrew	1240			
Powers	Selkirk	Stella	686			
Fort	York	Broadway	562			
Broadway	Garry	Fort	327			
Nares	Henry	Logan	415			
Rietta	Henry	Logan	431			
Schultz	Jarvis	Dufferin	385			
Aberdeen	Charles	Main	620			
Sherbrooke	N line lot 241	Portage Avenue	391			
Burrows	Aikins	Salter	661			
Aikins	Manitoba	Burrows	528			
Boyd	Charles	Aikins	660			
Flora	200 feet W of Salter.	Powers	635			
Magnus	Main	Aikins	1353			
McMillan	Joseph	Pembina	906			
Nena	Pacific	Ross	466			
Wellington	River Avenue	Spadina	188			
Dufferin	Charles	Powers	426			
			34,537	6.541		

WORKS EXECUTED IN 1902.—Continued.

STREET.	FROM.	TO.	Length in Feet.	In 1902. Miles	Previously Miles	Total. Miles
BRICK SEWERS.						
Colony......	Assiniboine River ..	Westward to join old brick at Proud Street	68			
Nassau	Spadina	Gertrude	677			
Nassau	McMillan	Gertrude	327			
Nena	Logan	Pacific.	624			
Nena	Pt.66 S of Bannatyne	Notre Dame	736			
Nena	Bannatyne	66 feet south	103			
Notre Dame	Nena	Maryland............	388			
			2,923	0.554		
				7.095	58.573	65.668

WORKS EXECUTED IN 1902.—Continued.

STREET.	FROM.	TO.	Length in Feet.	In 1902. Miles	Previously. Miles.	Total. Miles
ASPHALT PAVEMENTS.						
Sargent	Balmoral	Spence	265			
Balmoral, completed	Notre Dame	South side Qu'Appelle.	1624			
Colony, completed	Broadway	South side Proud	100			
Proud, completed	Osborne	Colony	99			
Assiniboine "	Donald	Main	1292			
Logan	Main	Lily	600			
Pacific	Main	Princess	586			
Princess	N. Rupert	N. Pacific	151			
Princess	William	Notre Dame	1198			
Young	Notre Dame	Ellice	2529			
Qu'Appelle	Hargrave	Balmoral	1397			
Sargent	Edmonton	Balmoral	623			
Broadway	Maryland	East line Osborne	2369			
187 feet incomplete at east end waiting settlement of filling Colony Creek.						
James	Main	Princess	564			
Main	Sutherland	Aberdeen	3604			
Surface incomplete from Selkirk to Aberdeen on west side.						
Henry	Main	East line Maple.	825			
Austin	Henry	Higgins	432			
Notre Dame	Portage	Charlotte, East line	1532			
			19,790	3.7447	5.3785	9.1232

WORKS EXECUTED IN 1903.—Continued.

STREET.	FROM.	TO.	Length in Feet.	In 1902. Miles	Previously. Miles	Total. Miles
MACADAM PAVEMENTS.						
Austin (completed)	Sutherland	Selkirk	1217			
Lorne	Austin	Beaconsfield	661			
Euclid	Main	Point Douglas	2592			
Hallett	N. line lot 44.	Jarvis	1267			
Jarvis (curb in)	Main	Hallett	992			
King	Flora	Point Douglas Ave.	2056			
Market	East line Louise	East end	513			
Bertha	Market	James	225			
Victoria	Notre Dame	Lombard	602			
Harriett	Bannatyne	McDermot	266			
			10,382	1.9663	25.6738	27.6401
CEDAR BLOCK PAVEMENTS.						
Lane next East Main Street	Market Street	Southward	208			
Lane between Main and Fort	St. Mary's	York	503			
Lane	McDermot, East	Gurney's Warehouse	110			
Lane S. of Portage	Smith Street	Garry	267			
			1,088	[illegible]206	16.049	14.9695

DEDUCT.—Charged to Asphalt on Main, James and Notre Dame..................1.0795

WORKS EXECUTED IN 1902.—Continued.

Side.	STREET.	FROM.	TO.	Length in Feet.	In 1902. Miles	Previously. Miles	Total. Miles
	ARTIFICIAL STONE WALKS.						
N.	McDermot	Albert	Arthur	134			
W.	Albert	McDermot	ft. N	145			
E.	Arthur	McDermot	ft. N	105			
W.	Rose	River Ave.	End	397			
W.	Smith	Lane S. Broadway	Assiniboine				
N.	York	Main	Smith	766			
N.	St. Mary's	Main	Hargrave	358			
N.	Graham	Main	Fort	242			
N.	Graham	Fort	Vaughan	2123			
N.	Portage	Main	Notre Dame.	253			
N.	Notre Dame.	Ellen	Kate	1597			
N.	Notre Dame	Kate	Nena	925			
W.	Isabel	Notre Dame	McDermot	500			
W.	Isabel	McDermot	Bannatyne	306			
S.	Alexander	Princess	Ellen	1092			
Both	Pacific	Princess	Isabel	4054			
N.	Pacific	Isabel	Nena	1619			
N.	Logan	Main	King	271			
E.	Main	Henry	Higgins	312			
W.	Main	Higgins.	Logan	680			
E.	Main	Market	Bannatyne	479			
N.	James	Main	King	254			
S.	James, incomplete	Main	Princess				
E.	Kennedy	Qu'Appelle	Southerly	351			
W.	Rorie	McDermot	Southerly	198			
S.	McDermot	Rorie	Eastward	59			
S.	Notre Dame	Garry	Gertie	1988			
W.	King	William	Bannatyne	332			
E.	Rorie	McDermot	Southward	106			
				20,646	3.9104	5.9093	9.8197

WORKS EXECUTED IN 1902.—Continued.

Side	New	Renewal	NAME.	FROM.	TO.	Length in Feet.		In 1902.	Previously	Total.
						New.	Renewal.	Miles	Miles	Miles
			PLANK SIDEWALKS.							
W	N		Beacon	Logan	Henry	384				
W		R	Gertie	Bannatyne	McDermot		294			
E	N		Balmoral	N line lot 95	S. line lot 91, plan 258	167				
S	N		Magnus	Salter	Andrews	1253				
W		R	Stanley	Logan	80 feet South		80			
S		R	Logan	Stanley	100 feet West		110			
S		R	McDermot	Kate	W. line E½ lot 4, Blk 1, plan 439		438			
S		R	Logan	100 ft. W of Stanley	Lizzie		110			
W	N		Margaretta	McDermot	End	280				
E	N		Langside	Broadway	250 feet South	250				
W		R	Scott	Spadina	1st lane North		150			
E	N		Nena	Notre Dame	McDermot	500				
E		R	Joseph	Spadina	Wardlow		280			
W	N		Langside	Ellice	N. line lot 76	1927				
E	N		Robinson	Jarvis	Dufferin	332				
E		R	Austin	Lisgar	Selkirk		230			
		R	Austin	Selkirk	Pt. opp. N line Lorne		626			
E	N		Nena	McDermot	Elgin	854				
			(except	100 ft. North from	Bannatyne)					
N	N		Jessie	Nassau	Hugo	1294				
E	N		Sherbrooke	Preston	Ida	1264				
W		R	Austin	Pt. Douglas Ave.	Sutherland		343			
					Forward	8505	2661			

WORKS EXECUTED IN 1902.—Continued.

Side	New	Renewal	NAME.	FROM.	TO.	LENGTH IN FEET.		In 1902.	Previously	Total.
						New.	Renewal.	Miles	Miles	Miles
			Plank Sidewalks—Continued.		*Forward*....	8505	2661			
N	..	R	Jarvis, except opp. lot 35, plan 490 and 1 and 10, plan 331	Main	Brown		6120			
N	N	.	Sutherland	Salter	Aikins	692				
N	N	..	Alfred	"	Andrews	1319				
N	N	..	Sutherland	"	Powers	663				
W	..	R	Salter	Sutherland	Jarvis		349			
S	N	..	Stella	Powers	Andrews	596				
E	N	..	Lydia	Notre Dame	N. line lot 15, plan 130	167				
W	N	.	Lydia	"	Pt. 127 feet North	127				
E	..	R	King	Jarvis	N. line lot 11, plan 395		842			
E	N	..	Gerard	River Ave.	End	393				
E	N	..	Langside	Ellice	S line lot 46, blk 2, P.325	1100				
E	..	R	Macfarlane	Pt. Douglas Ave.	Red River		1080			
W	N	..	Langside	Notre Dame	N. line lot 76, blk 3, P.325	714				
E	N	..	Balmoral	Broadway	Old walk	1054				
..	..	R	Manitoba	Charles	Salter		1334			
W	N	..	Charles	Stella	Flora	457				
N	N	..	Manitoba	W. line lot 395	W. line lot 391	135				
N	..	R	Notre Dame	Nena	W. line lot 13, plan 17		937			
S	N	..	Aberdeen	West line lot 61	E. line lot 57, plan 46	132				
N	N	..	Magnus	Main	665 feet E.	665				
					Forward....	16,709	13,323			

WORKS EXECUTED IN 1902.—Continued.

Side	New	Renewal	NAME.	FROM.	TO.	Length in Feet. New.	Length in Feet. Renewal.	In 1902. Miles	Previously Miles	Total. Miles
			Plank Sidewalks—Continued.		*Forward* ..	16709	13323			
S	..	R	Jarvis	Main	King		399			
W	N	.	Margaretta	Bannatyne	William	333				
W	N	.	Maryland	Broadway	Knappen	344				
W	N	..	Knappen	Maryland	End of Street	533				
S	N	..	Fawcett	"	" "	530				
W	N	.	King	Dufferin	Stella	348				
S		R	Lorne	Austin	Beaconsfield		680			
W	N	.	Andrews	Dufferin	Stella	331				
N	N	..	Selkirk	Andrews ..... Pt.	in line with E line Parr	1964				
W	N	..	Spence	Broadway	Portage	1187				
			(incomplete	because church in	construction)					
W	N	..	Victor	Notre Dame	N line lot 19, blk 21, P 193	316				
E	N	..	Schultz	Jarvis	Dufferin	722				
W	N	..	Schultz	"	"					
E	N	..	Margaretta	S. line lot 16	N. line lot 13, plan 439	146				
S	N	..	Flora	Powers	Andrews	596				
S	N	..	Stella	Andrews	MacGregor	658				
S	..	R	Alexander	Nena	W. line lot 85, plan 182.		420			
N		R	Notre Dame	W line lot 131, P 17	W line lot 11. blk 4, P 215		2992			
E	N	..	Furby	Sargent	100 feet South	100				
E	N	.	Boyle	Higgins	End	400				
E	N	..	Maryland	S. line lot 1	S. line lot 7, plan 174	202				
W	..	R	Barber	Euclid	975 feet North		975			
					Forward	25,419	18,789			

WORKS EXECUTED IN 1902.—Continued.

Side	New	Renewal	NAME.	FROM.	TO.	LENGTH IN FEET.		In 1902.	Previously	Total.
						New.	Renewal.	Miles	Miles	Miles
			Plank Sidewalks—Continued.		*Forward*....	25419	18789			
E	..	R	Barber	Euclid	Rover		1255			
S	..	R	Broadway	Furby	Maryland		634			
N	N	..	Lavinia	Maryland	Victor	527				
W	N	..	McGee	Ellice	Lavinia	1121				
S	N	..	Alexander	W. line lot 85	E line Rietta	512				
E	N	..	Langside	Pt. 250 feet South. Broadway	S line lot 80	275				
N	..	R	Polson	Main	Mac		1681			
E	N	..	Langside	Ellice	N. line lot 5, block 1	751				
W	N	.	Pembina	McMillan	Corydon	263				
S	N	..	Spadina	op. W. line Osborne	W. line lot 29, plan 52	230				
E	N	..	Spence	Broadway	Portage	300				
N	..	R	Macdonald	Argyle	May		315			
N	N	..	Flora	Andrews	MacGregor	594				
N	N	..	Alexander	Beacon	Brant	584				
W	N	..	Home	Portage	S. line lot 31, block 9	292				
N	N	..	Elgin	Tecumseh	200 feet West	200				
					Total, New - - -	31,078		5.886	169.138	175.024
					Total, Renewals -		22,674	4.2943		

WORKS EXECUTED IN 1902.

STREET.	FROM.	TO.	Length in Feet.	In 1902. Miles	Previously Miles	Total. Miles
NEW GRADING.						
Lane bet. Nares and Bushnel	Henry	Logan	594			
Simcoe	Portage	Ellice	2420			
Lane bet. Jarvis and Dufferin	Aikins	Salter	624			
Lane bet. Sutherland & Jarvis	Salter	Powers	594			
Andrews	Jarvis	Dufferin	330			
Mulvey	Hugo	Nassau	1266			
Lane in Blk 30 between Corydon and Jessie	John	Hugo	500			
Stafford	Corydon	Jessie	265			
Jessie	Stafford	Guelph	1066			
Stella	Andrews	McGregor	594			
Flora	“	“	594			
Lane bet. Selkirk & Pritchard	Powers	“	1188			
Powers	Pritchard	Alfred	1037			
Boyle	Higgins	River Bank	350			
Charles	Aberdeen	Redwood	307			
Salter	“	“	307			
McGregor	“	College	868			
Sinclair	“	“	868			
Priscilla			200			
Alfred	Salter	Andrews	1320			
Andrews	Selkirk	Manitoba	528			
		Forward...	15820			

WORKS EXECUTED IN 1902.—Continued.

STREET.	FROM.	TO.	Length in Feet.	In 1902. Miles	Previously Miles	Total. Miles
New Grading—Continued.		*Forward....*	15820			
Polson	Main	River	2900			
Lane bet. Lewis and Cauchon	River Ave	End	400			
Lane bet. Elgin and William	Nena	Tecumseh	1585			
Lane between Ross and Elgin	"	"	1585			
Elgin Avenue	"	Brant	2000			
Lane—Roslyn Place			208			
Lane—Wilmot Place			350			
Brighton	Logan	Alexander	330			
Langside	Notre Dame.	Ellice	1320			
		Total - -	26,498	5.019	118.0577	123.0767

LIST OF WATER MAINS.

From January 1st, 1902, to April 30th, 1903.

STREET.	FROM.	TO.	MAINS.		HYDRANT CON.			Intersecting Branch.		BLOW O.	
			Diam. Inches.	Length Feet.	No.	Diam. Inches	Length Feet	Diam. Inches.	Length Feet.	In.	Ft.
May	Pt. Douglas Ave....	Euclid	6	312	1	6	7				
Bushnell	Logan	Alexander	4	330							
Spence	Broadway	Portage	6	1463.5	4	6	28				
Ellice	Sherbrooke	Toronto	8	1309.25	2	6	14			4	17
Logan	Martha	Pt. 70 ft. E. of Main	4	247							
Charlotte	McDermot	Pt. 150 ft. N. Notre D'e	4	340							
Maryland	Ellice	Portage	6	1724	3	6	21				
"	S. side Portage	N. side Portage ...		116							
Notre Dame	Pt. 959.6 W. of Nena	Brant	6	1581.5	3	6	21				
Corydon	Pembina	Eastward	4	264							
Elgin	Pt. 400 ft. W of Nena	Brant	6	2152	5	6	35				
Toronto	Portage	Notre Dame	6	5750	11	6	77				
"	S. side Portage	N. side Portage....	6	116							
Princess	Notre Dame	McDermot	10	489	1	6	5				
"	"	"	14	20							
Macdonald	Argyle..	May	4	344.5							
King	Jarvis	Sutherland	6	331							
Ross	Nena	Brant	6	2510	5	6	35				
Furby	Sargent	Notre Dame	6	1461	2	6	14				
Furby	End of old at 327.6 ft N. of Preston....	Preston	6	379.6	1	6	7	6	66		
		Forward......		21240.35	38		264		66		17

LIST OF WATER MAINS.—Continued.

STREET.	FROM.	TO.	MAINS.		HYDRANT CON.			Intersecting Branch.		BLOW O.	
			Diam. Inches	Length Feet.	No.	Diam. Inches.	Length Feet	Diam. Inches.	Length Feet.	In.	Ft.
		Forward. . .		21240.35	38		264		66		17
Wellington Cres..	End of old 146.6 W. of lot 12	Bridge Street.	6	3166	5	6	35			4	
Nassau	Gertrude	Mulvey	6	1598.3	2 1	6 8	21				
McMillan	Pembina.	Nassau	6	973	2	6	14				
Corydon	Nassau	Hugo	6	1318	2	6	14				
Jarvis	End of old (half way bet. Austin & Salter)	Powers	6	1038	1	6	7				
Princess. . . .	Logan	Sutherland	10	1400	1	8	13				
Sutherland	Princess	King	10	89	1	8	7			4	17
"	King	Main	8	369							
King	North side	South side	10	52							
Selkirk	Powers	5th lot W. McGregor	10	1535	2	6	14				
James	Bertha	E. Transfer Track. .	4	265	1	6	7				
Macdonald.	East side	W. side at May	4	52							
May	Higgins	Macdonald.	4	316							
Langside	Notre Dame.	Sargent	6	1326	2	6	14				
Juno.	Bannatyne.	William	4	394							
Aberdeen	Charles	Main	4	359							
Higgins	Xante	McPhillips.	12	1391							
McPhillips	Higgins	Henry	16	213							
Main E. side . . .	Sutherland	Aberdeen	8	3570	7	8	49			4 Into Tank Euclid	
Pritchard	E. line Main	Main, East side.	4	24							
		Forward. . . .		40688.65	65		459	.	66		34

LIST OF WATER MAINS.—Continued.

STREET.	FROM.	TO.	MAINS.		HYDRANT CON.			Intersecting Branch.		BLOW. O.	
			Diam. Inches	Length Feet.	No.	Diam. Inches	Length Feet	Diam. Inches	Length Feet.	In	Ft.
		Forward....		40688.65	65		459		65		34
Manitoba	E. line Main	Main, East side.....	4	24							
Burrows	" "	" "	4	24							
Aberdeen	" "	" "	4	24							
Jessie.......	Nassau	Hugo..	6	1318	2	6	14				
Mountain	Charles	Aikins	4	660							
Garry	Portage	Ellice...............	4	372							
Sargent	Sherbrooke	Maryland	14	326							
Nassau	Gertrude	River Ave	4	1315							
Maryland	Ellice	Sargent	6	1307	2	6	14				
William	End of old at Penelope	Brant....	6	1993.3							
Pacific...........	Nena..........	E. of Tecumseh.....	6	1600	3	6	21				
Alexander	"	" "	6	1536	3	6	21				
Higgins	Mordant	Louise B'ge, Pt 403.5	8	1266	1	8	20				
		No. of Pt. Douglas			3	6					
Notre Dame	Brant	E. line Ingersoll....	14	1408	1	8	14				
....	(End of old).........	. ...			1	6					
Maryland	Notre Dame	Sargent	6	1852	3	6	21				
Wellington	Spadina	Gertrude.......	10	1037.5							
Brant......... ...	Logan	William	10	1550.5							
Portage Ave......	Sherbrooke	Toronto	10	1431	1	8	7				
		Forward. ...		59732.95	85		591		66		34

LIST OF WATER MAINS.—Continued.

STREET.	FROM.	TO.	MAINS.		HYDRANT CON.			Intersecting Branch.		BLOW O.	
			Diam. Inches.	Length Feet.	No.	Diam. Inches	Length Feet	Diam. inches	Length Inches	In.	Ft.
		Forward....		59732.95			591		66		34
Maple	Higgins	145 ft. North..	4	145							
McGee	Ellice	Southward...	6	630	1	6	7				
Margaretta	McDermot	"		276				8	104		
Pembina	Corydon	Dudley	6	1773.5	2	6	6	6	156		
"	Spadina	Gertrude............	4	678				4	70		
McArthur..... ...	Higgins	River Bank	6	212	1	6	at end of Main				
Furby	Ellice....	Sargent	6	1292	2	6	14				
Selkirk	5th lot W. McGregor	Sinclair......... ...	10	2420	1	6	5				
Langside	Ellice....	Sargent	6	1304	2	6	6			4	14
				68463.45	86		629		396		48
				396.							
MILES.......... ....13 041				68859.45							

LIST OF FIRE HYDRANTS ERECTED FROM JAN. 1st, 1902 TO APRIL 30th, 1903.

STREET.	SIZE.	LOCATION.	PARTICULARS.
May	6	Point Douglas.	N E Corner
Spence	6	Broadway	"
"	6	" 492.7 ft. N.	
"	6	" 955.2 ft. N.	
"	6	Portage	S E corner
Ellice	6	McGee	"
"	6	Victor	"
Maryland	6	Portage	N E corner
"	6	N line Lavinia	E side
"	6	" " 553 N	"
Notre Dame	6	Victor	N side
"	6	Beverley	"
"	6	Home	"
"	6	McGee, 35 E	
Elgin	6	Nena, 575 ft. W	S side
"	6	Tecumseh, 502 ft. E	"
"	6	"	S E corner
"	6	" 416 ft. W	
"	6	Brant	S E corner
"	6	Ellen	"
Toronto	6	Portage	N E corner
"	6	" 513 ft. N	
"	6	Lavinia, 7 ft. S on N line	
"	6	Ellice, 560 ft. S	
"	6	"	S E corner
"	6	" 395 ft. N	
"	6	Sargent, 395 ft. S	
"	6	"	N E corner
"	6	Wellington, 621 ft. S	
"	6	"	S E corner
"	6	Notre Dame, 330 feet S.	
Princess	6	" 234 feet N.	
Ross	6	Nena, 526 ft. W	
"	6	Tecumseh, 526 ft. E	
"	6	"	S E corner
"	6	Brant, 451 ft. E	
"	6	Brant	S E corner
Furby	6	Sargent, 476 N	
"	6	" 1005.5 N	
"	6	Preston, 200.0	
Wellington Cr't	6	Helen	
" "	6	Wardlow, 58.0 E	
" "	6	from last 474 ft. W	
" "	6	" 472 ft. W	
" "	6	" 472 ft. W	
" "	8	River Avenue	S E corner
Nassau	8	Corydon	"
"	8	Rosser	"
"	8	Mulvey	"

List of Fire Hydrants Erected, Jan. 1, 1902, to April 30, 1903 (Continued)

STREET.	SIZE.	LOCATION.	PARTICULARS.
McMillan	6	Pembina, 307 ft. W	
"	6	Nassau, 200 E	
Corydon	6	John	S E corner.
"	6	Hugo	"
Jarvis	6	Powers, 297 ft. E	
Princess	8	Point Douglas	S E corner
Sutherland	8	King	"
Selkirk	8	Andrews	N E corner
"	6	McGregor	"
James	6	Bertha, 149.5 W.	
Langside	6	Sargent 319.0 N	
"	6	Notre Dame, 506.0 S	
Main, East side	8	Sutherland	N E corner
"	8	Jarvis	"
"	8	Euclid 498.0 N	
"	8	Selkirk 158.0 N.	
"	8	Manitoba	N E corner
"	8	Magnus	"
"	8	Alfred	"
James	6	King	S W corner
Kennedy	6	Graham	S E corner
Smith	6	Ellice	"
Jarvis	6	Sinclair	N E corner
Dufferin	6	Brown	S E corner
Hariett	6	Bannatyne	"
Elgin	6	Gertie	S W corner
"	6	Nena	"
Pacific	6	Leonard	S E corner
William	6	Dagmar	"
"	6	Juno	"
"	6	Adelaide	"
"	6	Ellen	S W corner
"	6	Harriett	S E corner
"	6	Kate	S W corner
McDermot	6	Isabel	S E corner
"	6	Charlotte	
"	6	Arthur	S E corner
"	6	Ellen	S W corner
"	6	Princess	"
"	6	Kate	S E corner
Portage	8	Kennedy	"
"	8	Edmonton	"
"	8	Carlton	"
"	8	Hargrave	"
"	8	Fort	"
Broadway	8	Edmonton	N W corner
"	8	Hargrave	"
"	8	Donald	"
"	8	Smith	"

List of Fire Hydrants Erected, Jan. 1, 1902, to April 30, 1903 (Continued)

STREET.	SIZE.	LOCATION.	PARTICULARS.
Broadway	8	Fort	N W corner
Bannatyne	6	Charlotte	S E corner
"	6	Dagmar	"
"	6	Adelaide	"
"	6	Juno	S W corner
"	6	Princess	"
"	6	Lydia	"
Ellice	6	Edmonton	S E corner.
"	6	Hargrave	S W corner
York	6	Smith	"
"	8	Kennedy	S E corner
"	6	Donald	"
"	6	Carlton	"
Main	8	Water	N E corner
"	8	McDermot	"
"	8	Lombard	"
"	8	Thistle	"
Jessie	6	Nassau, 550 ft. W	
"	6	John, 250 ft. W	
Maryland	6	Ellice 320 ft. N	
"	6	Sargent, 320 ft. S	
Pacific	6	Nena, 526 ft. W	
"	6	Tecumseh, 526 ft. E	
"	6	"	S E corner
Alexander	6	Chambers	N W corner
"	6	Lulu	"
"	6	Nora	"
"	6	King	"
Higgins	6	McArthur	S E corner
"	6	Boyle	"
"	6	Point Douglas, 3 ft. 5 in. N	
"	8	" 401.5 ft. N	
Notre Dame	8	Brant, 440.0 ft. W	
"	6	Brant, 930.0 ft. W	
Maryland	6	Sargent, 375.0 ft. N	
"	6	" 925.0 ft. N	
"	6	Notre Dame, 255.0 ft. S	
Portage	8	Broadway Place	S E corner
McGee	6	Ellice, 459.0 S	
Pembina	6	Rosser	S E corner
"	6	Fleet	"
"	6	Corydon	"
McArthur	6	Higgins, 200 S	
Furby	6	Ellice, 376.0 N	
"	6	Notre Dame, 428.0 S.	
Selkirk	6	McKenzie, 431.0 W.	
"	6	"	N E corner
Langside	6	Ellice, 500.0 N	
"	6	Ellice, 1000.0 N	

List of Fire Hydrants Erected, Jan. 1, 1902, to April 30, 1903 (Continued)

STREET.	SIZE.	LOCATION.	PARTICULARS.
Rachel	6	Point Douglas	N E corner
“	6	“ 500 ft. N	
“	6	“ 1000 ft. W	
Wardlow	6	Joseph, 420 ft. W	
“	6	Pembina	S E corner
“	6	“ 453 ft. W	
“	6	Nassau	S E corner
“	6	Wellington Cressent	“
Charles	6	Sutherland	N E corner
“	6	Flora, 123 S.	
“	6	Manitoba	S E corner
“	6	Mountain	“
“	6	Anderson	N E corner
Graham	6	Hargrave	S E corner
“	6	Garry	“
“	6	Edmonton	“
Assiniboine	6	Garry	S side Assiniboi’e
“	6	Kennedy	N E corner
St. Mary’s	8	“	S E corner
“	6	Edmonton	“
Thistle	6	Victoria, 198 ft. E	
Central Avenue		Cornish, 483 ft. S	
“ “		Blanchard	S W corner
Cornish	6	Assiniboine, W	S E corner
Albert	6	Notre Dame, 273 N.	
Argyle	6	Macdonald	N E corner

ASPHALT PLANT.

A number of improvements were made in the plant as suggested last year. The result being that the output was increased and the cost of the work reduced.

As the ground lease expires this year, it will be necessary for us to move this plant before next season's work. It is understood that it is the intention to establish it at the new City Yards on Elgin Avenue.

Plans and estimates are being prepared for the new plant which will be submitted to your Committee later. Very little addition to our present machinery will be necessary.

CITY OF WINNIPEG.

ASPHALT PLANT.

(Continuation of Statement of Jan. 8th, 1902. Annual Report 1901.)

CAPITAL ACCOUNT, 1902.

To Balance	$14,496 79	
New Grinder, Elevator, etc	955 66	
Tools, ½ of cost	333 87	
Extensions and repairs to plant, ½ of cost	2528 38	
	18,314 70	
Depreciation at 5 per cent ..	915 73	
		$17,398 97

MAINTENANCE, OPERATING AND CAPITAL CHARGES 1902.

Maintenance and repairs to plant	$2,528 38
Tools, ½ of cost	333 88
Interest at 4 per cent on $18,314.70 ...	732 59
Depreciation at 5 per cent............	915 73
Lost Taxes.........................	100 00
	$4,610 58

Square yards of Asphalt laid in 1902 (including repairs) = 90815.6.
Average per yard = 5.07 cents.

ASPHALT PAVEMENTS CONSTRUCTED BY DAY LABOR, 1902.

	Square Yards Asphalt.	ON BASIS OF WORK DONE.	
		Estimated Cost.	COST BY DAY LABOR.
Austin Street, Henry Ave. to Higgins	1,207	$3,813 72	$3,459 25
Assiniboine Ave., East line Donald Street to Main Street	3,986	12,392 39	12,463 57
Balmoral Street, Notre Dame Avenue to Ellice Avenue	4,487	14,132 07	13,883 53
Henry Avenue, Main Street to Maple Street	2,812	8,371 57	7,614 84
James Avenue, Main Street to Princess Street	3,043	8,191 40	7,719 54
Logan Avenue, Main Street to Lilly Street	1,900	5,805 10	5,173 40
Notre Dame Avenue, Portage Avenue to Charlotte Avenue	8,000	23,066 00	22,317 51
Princest Street, Rupert Ave. to Pacific Avenue and William Ave. to Notre Dame Ave.	6,093	13,960 63	13,494 65
Pacific Avenue, Main Street to Princess Street	2,140	6,118 80	6,497 91
Qu'Appelle Avenue, Hargrave Street to Balmoral	4,118	12,964 21	11,281 78
Sargent Avenue, Edmonton Street to Spence Street	2,628	8,270 96	7,964 09
Young Street, Notre Dame Ave. to Ellice Ave.	6,903	21,842 52	19,309 63
Broadway, Osborne Street to Maryland	7,283	22,466 00	20,778 61
Main Street North, Sutherland Ave. to Aberdeen	28,452	92,234 68	86,823 33
Proud and Colony Street, completing pavement laid in 1901	674	1,862 01	2,013 42
	83,726	$255,492 06	$240,795 06

MEMO.—When no day labor estimates were prepared, estimates as above are computed at usual rates. No tenders received.

MACADAM PAVEMENTS CONSTRUCTED BY DAY LABOR 1902.

	ON BASIS OF WOKK DONE.	
	Estimated Cost.	COST BY DAY LABOR.
Austin Street, Sutherland Avenue to Selkirk Avenue	$5,150 25	$4,513 14
Bertha Street, Market Avenue to James Avenue	612 56	644 52
Euclid Avenue, Point Douglas Ave. to Main Street	8,231 77	7,546 89
Jarvis Avenue and Hallet Street, from Main St. to Hallet St. and from Jarvis Ave. to N. line lot 44, Plan 124	5,552 26	5,594 92
Harriet Street, McDermot Ave. to Bannatyne Avenue	779 83	742 81
King Street, Flora Avenue to Point Douglas Avenue	6,006 50	5,161 07
Lorne Street, Austin Street to Beaconsfield Street	1,863 61	1,756 92
Market Avenue, Louise Street to Bertha Street	3,267 37	3,199 63
Victoria Street, Notre Dame Avenue to Lombard	1,835 88	1,848 63
	$33,300 03	$31,008 53

MEMO.—No day labor estimate for Harriet Street pavement, estimate above is computed at usual rate. No tenders received.

COST OF MACADAM REPAIRS IN 1902.

	STREET.		Area in Sq. Yards.	Cost for Repairs.	Rate per Square Yard.
					Cents.
1.	Adelaide Street	Elgin to Notre Dame	3,584	$ 149 65	04.18
2.	Alexander St., East	Main to Lilly	1,640	129 70	07.91
3.	Alexander St., West	Princess to Nena	9,088	201 60	02.22
4.	Amy Street	North End to South End	771	49 85	06.47
5.	Austin Street	Sutherland to Selkirk	5,371	191 29	03.56
6.	Bannatyne Avenue	Princess to Nena Nena to Emily	11,456	304 05	02.654
7.	Broadway	Main to Kennedy	11,265	293 55	02.606
8.	Carlton St.	Portage to Assiniboine	8,280	130 45	01.575
9.	Cauchon St.	River Avenue to end of Street	1,011	32 80	03.244
10.	Charlotte St.	Cumberland to William	3,647	383 95	10.53
11.	Clarke St.	River Ave. to Wardlow	2,586	96 25	03.722
12.	Colony St.	Portage to Broadway	5 156	183 10	03.551
13.	Cooper St.	Colony to end of Street	842	35 20	04.18
14.	Dagmar St.	Notre Dame to William	2,922	86 30	02.954
15.	Donald St.	Portage to Assiniboine	8,295	88 00	01.061
16.	Edmonton St.	" " "	8,197	97 15	01.185
17.	Elgin Ave	Nena to West line lot 33	8,003	320 40	04.003
18.	Ellen Street	Notre Dame to Logan	7,362	266 00	03.613
19.	Ellice Ave	Notre Dame to Vaughan	6.272	217 10	03.461
20.	Euclid Ave	Point Douglas Avenue to Main	8,152	72 40	00.888*
21.	Fonseca Ave.	Princess to Main	1,780	305 10	17.14
22.	Fort Street	Broadway to York	1,381	39 25	02.84
		Forward	117,061	$3,673 14	

COST OF MACADAM REPAIRS IN 1902.—Continued.

STREET.		Area in Sq. Yards.	Cost for Repairs.	Rate per Square Yard.
	Forward..	117,061	$3,673 14	Cents.
23. Frances St.	Bannatyne to Notre Dame	1,920	38 90	02.026
24. Furby St.	Portage to Cornish	9,022	304 65	03.377
25. Garry Street	Ellice to Broadway	7,356	133 00	01.808
26. Gertie Street	Notre Dame to Elgin	3,672	81 05	02.208
27. Graham Ave.	Fort to Vaughan	6,022	108 80	01.806
28. Hargrave St.	Cumberland to Assiniboine	11,624	199 50	01.716
29. Hallet St.	Jarvis to North line lot 44	3,495	3 10	00.09 *
30. Harriet St	Notre Dame to William	2,844	60 45	02.126
31. Higgins Ave.	Main to Louise Bridge	22,440	1,152 20	05.135
32. Isabel St.	Logan to Notre Dame	7,818	320 65	04.101
33. King Street	James to Fonseca	4,422	521 80	11.8
34. Lewis St.	River Ave. to end of Street	1,008	19 45	01.93
35. Lizzie St	Fonseca to Point Douglas	1,050	2 20	00.21
36. Logan Ave.	Ellen to Nena	9,636	443 05	04.598
37. Lombard Ave.	Main to Transfer Railway	4,391	91 60	02.086
38. Lorne St.	Austin to Beaconsfield	1,785	40 40	02.263*
39. Market Ave	Main to Louise	2,273	84 80	03.371
40. McDermot Ave.	Princess to Nena	10,733	429 83	04.005
41. Nassau St.	River Ave. to Roslyn	1,744	31 85	01.826
42. Nena Street	Logan to Notre Dame	10,775	480 78	04.462
43. Notre Dame, E.	Main to Transfer Railway	4,910	365 45	07.443
44. Osborne St.	River Ave. to Osborne Bridge	3,253	96 65	02.971
	Forward.... ...	249,254	$8,683 10	

COST OF MACADAM REPAIRS IN 1902.—Continued.

STREET.		Area in Sq. Yards.	Cost for Repairs	Rate per Square Yard.
	Forward	249,245	$8,683 10	Cents.
45. Pacific Ave., E.	Main to Lilly	1,618	82 10	05.074
46. Pacific Ave., W	Princess to Nena	9,326	209 20	02.243
47. Pembina St. and Osborne St.	River Ave. to Corydon	8,325	199 70	02.299
48. Portage Ave.	Hargrave to Sherbrooke	24,133	1,159 65	04.805
49. Princess Street	Pacific to Ft. Douglas	7,006	735 65	10.5
50. River Ave., E.	Main to Osborne	17,319	198 45	01.146
51. River Ave., W.	Osborne to East line lot 263	4,354	141 65	03.253
52. Roslyn Road and Tache St.	East end to West end	8,224	120 55	01.466
53. Roslyn Place	Nassau to West end of Place	513	11 10	02.164
54. Ross Ave.	Princess to Nena	9,750	275 40	02.825
55. Rupert Ave., E.	Main to Victoria Park	3,227	52 35	01.622
56. Rupert Ave., W	Main to Princess	1,560	120 40	07.718
57. Scott and Joseph	River Ave. to McMillan	4,366	121 80	02.79
58. Selkirk Ave., E.	Main to Red River	3,004	76 45	02.545
59. Smith Street	Portage to Assiniboine	8,522	117 65	01.38
60. Spadina Ave.	Priscilla to Pembina.	7,036	114 80	01.632
61. Spence St.	Portage to Notre Dame	9,701	367 65	03.79
62. St. Mary's Ave.	Main to Colony	8,471	198 00	02.337
63. Thistle Ave.	Main to Eastward	2,702	64 95	02.404
64. Vaughan St	Ellice to South end of Street	5,441	95 95	01.763
65. Victoria St.	Notre Dame to Lombard	1,819	6 55	00.26*
66. William Ave.	Charlotte to Nena	11,436	280 50	02.453
67. York Ave.	Main to Kennedy	6,618	114 90	01.736
	Total - - -	413,725	$13,548 70	03.2748

SQUARE YARDS MACADAM.

Total laid to December 31st, 1894	4,818
“ “ “ 1895	31,147
“ “ “ 1896	38,522
“ “ “ 1897	130,782
“ “ “ 1898	209,099
“ “ “ 1899	298,061
“ “ “ 1900	374,274
“ “ “ 1901	407,169
“ “ “ 1902	440,063

Total removed for Asphalt to Dec. 31st, 1901	5,305
“ “ “ “ 1902	11,692

Net amount laid to December 31st, 1902	428,371

BLOCK PAVEMENTS CONSTRUCTED BY DAY LABOR, 1902.

	ON BASIS OF WORK DONE.		COST BY DAY LABOR.
	Estimated Cost.	Lowest Tender including Inspection.	
Lane East of Main St., from Market Ave. to south end of lane..	$ 475 07	$ 569 53	$ 575 15
Lane between Main St. and Fort St. from St. Mary's Avenue to York Ave....	1,276 92	1,343 12	1,343 21
	$1,751 99	$1,912 65	$1,918 36
Lane between Smith Street and Garry Street—1st lane south of Portage Ave	$ 700 32		$ 775 80

SEWERS CONSTRUCTED BY DAY LABOR, 1902.

	ON BASIS OF WORK DONE.		COST BY DAY LABOR.
	Estimated Cost.	Lowest Tender.	
Exhibition Grounds Sewer......	No day labor estimate.	No Tenders.	$ 976 59
Good Street Sewer, North line lot 22 to North line lot 16	"	"	511 83
Kennedy Street Sewer, 55 feet N. of Ellice Ave. to Sargent	"	"	1,058 14
Main Street North, Sewer, Alfred to Aberdeen	"	"	655 76
			$3,202 32
Austin and Higgins Ave. Sewer, Henry to Higgins and Austin to Main....	$1,094 98	$1,166 12	$1,315 71
Boyd Avenue Sewer, Aikins to Charles	571 50	653 75	733 59
Charles Street and Manitoba Ave. Sewer, Selkirk to Manitoba Ave. and Charles to Aikins	2,535 00	2,948 50	2,910 37
Flora Avenue Sewer, Robinson to Salter	1,005 05	1.074 55	1,172 92
Langside St. Sewer, Ellice Ave. to Notre Dame	2,642 45	3,103 62	3,243 22
Magnus Avenue Sewer, Main St. to Aikins	1,386 82	1,444 37	1,889 08
Maryland Street Sewer, Ellice to Sargent............	1,551 89	1,677 34	1,650 52
Maryland Street Sewer, Portage to Ellice Ave..................	1,857 53	2,079 93	2,317 44
Maryland, Notre Dame, Nena Sewer; Sargent to Notre Dame, Maryland to Nena, Notre Dame to 66 feet south of Bannatyne .	4,738 45	5,590 75	7,202 46
Nena Street Sewer, Logan Ave. to Ross	1,992 65	2,839 40	2,603 41
Nena Street Sewer, Bannatyne to 66 feet South..................	264 25	502 50	343 99
Nassau Street Sewer, McMillan to Gertrude	1,196 70	1,565 60	1,502 57
Powers and Stella Avenue Sewer, Selkirk to Stella and Salter to Andrews	2,144 70	2,358 45	2,369 73
Sherbrooke Street Sewer, N. line lot 241 to Portage.........	355 88	385 88	391 27
	$23,337 85	$27,390 76	$29,646 28

MEMO.—Amounts of "Lowest Tenders" include Inspection.

WATER WORKS CONSTRUCTION.

The report of 1901 gave in detail a description of the New Water Works Plant.

Since that report new mains and hydrants have been provided as shown in the statements accompanying the report.

The consumption of water has been very largely increased, there being 1000 more services than there were last year.

The capacity of our present well being only 2,500,000 Imperial gallons per day, it was necessary to at once provide a further supply. After full consideration of the matter, the Council decided to sink another well, 20 feet diameter, at a distance of about 300 feet from the present well, and have contracted with the Jno. McDougall and H. R. Worthington Co. for new pumps having a capacity of 5,000,000 Imperial gallons per day. The pump will be set at the bottom of the well at rock level some 50 feet below the surface.

After sinking the main well to the rock, it is intended to sink into the rock a distance of about 20 feet a shaft some 10 feet in diameter, and from this to construct a lateral gallery 6 ft. square in the rock for a distance of about 200 ft. to be used as a conduit or collecting gallery. The natural water level being near the surface of the ground, this work will be done by the pneumatic process.

When this well has been completed, it is proposed to lower the present well to the same level.

The original intention of having a duplicate pumping plant will then be carried out, and the old works on the Assiniboine River may be abandoned.

WATER WORKS CONSTRUCTION ACCOUNT,

To March 31st, 1903.

EXPENDITURE.

Mains—Labor and materials, (including pipe, etc., in stock		$437,259 71
Meters		61,385 19
Purchase of old system and repairs to do		241,862 67
Boilers, etc., at new power house		22,044 00
Softening Plant at new power house		17,859 00
Pumping Engines at new power house		89,855 00
Sand for pumping station		642 00
Sewer in Logan Ave. (portion of cost)		1,500 50
Buildings for power house and softening plant, chimney, electric wiring, etc		39,536 13
Work done for contractors	$12,687 06	
Less charged per contracts	12,055 68	631 38
Pipe system from power house to softening plant, suction to well, testing W.W. pumps, repairs, extra concrete in reservoir, pipe casting, etc.		11,706 01
Concreting well		855 70
Heating system at buildings		4,521 21
Spur track and extension		833 55
Well construction, pumping and testing		7,950 41
Tools and plant		2,749 03
Miscellaneous, preliminary surveys, etc.		11,929 43
Sale of bonds, accrued interest, etc		6,920 25
Coal and wood fuel	24,938 05	
Less in stock at date of transfer to Operating Dept	1,295 05	23,643 00
Firemen's wages, etc		5,409 04
Operating Water Works and Softening Plant.		13,125 28
Extensions, etc., to Plant and Buildings—		
Addition to power house building	3,949 70	
Lime recovery	189 85	
New office at power house	214 30	
New catch basin to power house	140 25	
Coke furnace, etc., in softening plant	559 48	
Extension of water supply system	747 75	
Test Wells, etc	125 12	
		5,926 45
Total expenditure to date		$1,008,144 94

RECEIPTS.

Proceeds, sale of bonds		831,986 12
		$176,158 82
Amounts to be credited to above—		
Operating W. W. to May 13, 1901, and Softening Plant to January 6th, 1902	13,125 28	
Coal W. W. and Softening Plant	7,096 98	
Firing " " "	1,657 00	
Coal, operation Electric plant	11,624 52	
Firing " " "	2,716 00	
		36,219 78
		$139,939 04

BRIDGES.

LOUISE BRIDGE—

The Canadian Pacific Railway have given up this bridge and caretakers and watchmen have been dispensed with. The rails have not yet been taken up. There are two applications for the use of this Bridge; one from the Winnipeg Electric Street Ry. Co., and the other from a company represented by Mr. E. F. Hutchings.

MAIN STREET BRIDGE—

This Bridge will require partial renewal of floor and painting. The up stream fender, except the cutwater, has been renewed.

OSBORNE STREET BRIDGE—

The fender of this Bridge has been renewed. Repairs of floor will be necessary.

MARYLAND STREET BRIDGE—

This Bridge has been painted. It will require renewal of part of floor.

OMAND'S CREEK BRIDGE—

A new concrete pier was constructed and the floor repaired. It will need no more than ordinary repairs this year.

SALTER STREET VIADUCT—

This bridge will require a new floor.